```
<110> INCYTE PHARMACEUTICALS, INC.
      LAL, Preeti
      HILLMAN, Jennifer L.
      GORGONE, Gina
      CORLEY, Neil C.
      PATTERSON, Chandra
      YUE, Henry
      TANG, Y. Tom
      AZIMZAI, Yalda
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<120> HUMAN SOCS PROTEINS

<130> PF-0525 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/087,104; 09/216,006 <151> 1998-05-28; 1998-12-17

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Asp Val Asn Cys Thr His Gly Thr Leu Lys Pro Leu His Cys Ala 55

Cys Met Val Ser Asp Ala Asp Cys Val Glu Leu Leu Glu Lys 65

Gly Ala Glu Val Asn Ala Leu Asp Gly Tyr Asn Arg Thr Ala Leu 85

His Tyr Ala Ala Glu Lys Asp Glu Ala Cys Val Glu Val Leu Leu 100 95

Glu Tyr Gly Ala Asn Pro Asn Ala Leu Asp Gly Asn Arg Asp Thr 115 110

Pro Leu His Trp Ala Ala Phe Lys Asn Asn Ala Glu Cys Val Arg 135 130 125

Ala Leu Leu Glu Ser Gly Ala Ser Val Asn Ala Leu Asp Tyr Asn 145 140

EFECH ( F. K. Y. F. R. 1600) 2400

RECEIVED MAR 23 5005

RECENTED

TECH CENTER 1600/2900 MAY 0 9 2002

TECH CENTER 1000/1900

Asn Asp Thr Pro Leu Ser Trp Ala Ala Met Lys Gly Asn Leu Glu 155 Ser Val Ser Ile Leu Leu Asp Tyr Gly Ala Glu Val Arg Val Ile 175 170 Asn Leu Ile Gly Gln Thr Pro Ile Ser Arg Leu Val Ala Leu Leu 185 190 Val Arg Gly Leu Gly Thr Glu Lys Glu Asp Ser Cys Phe Glu Leu 205 200 Leu His Arg Ala Val Gly His Phe Glu Leu Arg Lys Asn Gly Thr 220 215 Met Pro Arg Glu Val Ala Arg Asp Pro Gln Leu Cys Glu Lys Leu Thr Val Leu Cys Ser Ala Pro Gly Thr Leu Lys Thr Leu Ala Arg 250 Tyr Ala Val Arg Arg Ser Leu Gly Leu Gln Tyr Leu Pro Asp Ala 260 Val Lys Gly Leu Pro Leu Pro Ala Ser Leu Lys Glu Tyr Leu Leu

Leu Leu Glu

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Thr Pro Ser Gly Ser Leu Ile Leu Val Ser Ala Ser Arg Asp Lys 190 185 Thr Leu Arg Ile Trp Asp Leu Asn Lys His Gly Lys Gln Ile Gln 205 200 Val Leu Ser Gly His Leu Gln Trp Val Tyr Cys Cys Ser Ile Ser 220 215 Pro Asp Cys Ser Met Leu Cys Ser Ala Ala Gly Glu Lys Ser Val 235 230 Phe Leu Trp Ser Met Arg Ser Tyr Thr Leu Ile Arg Lys Leu Glu 250 245 Gly His Gln Ser Ser Val Val Ser Cys Asp Phe Ser Pro Asp Ser 265 Ala Leu Leu Val Thr Ala Ser Tyr Asp Thr Asn Val Ile Met Trp 280 275 Asp Pro Tyr Thr Gly Glu Arg Leu Arg Ser Leu His His Thr Gln 295 290 Val Asp Pro Ala Met Asp Asp Ser Asp Val His Ile Ser Ser Leu 310 305 Arg Ser Val Cys Phe Ser Pro Glu Gly Leu Tyr Leu Ala Thr Val 320 325 Ala Asp Asp Arg Leu Leu Arg Ile Trp Ala Leu Glu Leu Lys Thr 340 335 Pro Ile Ala Phe Ala Pro Met Thr Asn Gly Leu Cys Cys Thr Phe 355 350 Phe Pro His Gly Gly Val Ile Ala Thr Gly Thr Arg Asp Gly His 370 365 Val Gln Phe Trp Thr Ala Pro Arg Val Leu Ser Ser Leu Lys His 385 380 Leu Cys Arg Lys Ala Leu Arg Ser Phe Leu Thr Thr Tyr Gln Val 400 Leu Ala Leu Pro Ile Pro Lys Lys Met Lys Glu Phe Leu Thr Tyr Arg Thr Phe

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 Asp
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 Glu
 Ser
 Lys
 Glu
 Pro
 Ala
 Gly
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 Ala
 Val
 Ala

 Pro
 Ala
 Leu
 Leu
 Glu
 Ser
 Pro
 Arg
 Pro
 Glu
 Gly
 Gly
 Gly
 Glu
 Gly
 Gly
 Gly
 Gly
 Pro
 Asp
 Gly
 G

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90
                                     85
Phe Lys Leu Glu Thr Arg Gly Val Lys Asp Val Leu Lys Lys Arg
                                    100
Leu Lys Asn Tyr Tyr Lys Lys Gln Lys Leu Met Leu Lys Glu Ser
                                    115
                110
Asn Phe Ala Asp Ser Tyr Tyr Asp Tyr Ile Cys Ile Ile Asp Phe
                                    130
                125
Glu Ala Thr Cys Glu Glu Gly Asn Pro Pro Glu Phe Val His Glu
                                    145
Ile Ile Glu Phe Pro Val Val Leu Leu Asn Thr His Thr Leu Glu
                                    160
Ile Glu Asp Thr Phe Gln Gln Tyr Val Arg Pro Glu Ile Asn Thr
                170
Gln Leu Ser Asp Phe Cys Ile Ser Leu Thr Gly Ile Thr Gln Asp
                                    190
                185
Gln Val Asp Arg Ala Asp Thr Phe Pro Gln Val Leu Lys Lys Val
                                     205
                200
Ile Asp Trp Met Lys Leu Lys Glu Leu Gly Thr Lys Tyr Lys Tyr
                215
                                    220
Ser Leu Leu Thr Asp Gly Ser Trp Asp Met Ser Lys Phe Leu Asn
                                     235
                230
Ile Gln Cys Gln Leu Ser Arg Leu Lys Tyr Pro Pro Phe Ala Lys
                245
                                     250
Lys Trp Ile Asn Ile Arg Lys Ser Tyr Gly Asn Phe Tyr Lys Val
                                     265
                260
Pro Arg Ser Gln Thr Lys Leu Thr Ile Met Leu Glu Lys Leu Gly
                                                         285
                                     280
                275
Met Asp Tyr Asp Gly Arg Pro His Cys Gly Leu Asp Asp Ser Lys
                                     295
                290
Asn Ile Ala Arg Ile Ala Val Arg Met Leu Gln Asp Gly Cys Glu
                305
Leu Arg Ile Asn Glu Lys Met His Ala Gly Gln Leu Met Ser Val
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Ser Ser Ser Leu Pro Ile Glu Gly Thr Pro Pro Pro Gln Met Pro
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His Phe Arg Lys
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 5
 10
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 Ser Ala Ala Arg Arg Asp Ala Asp Ala Asp Ala Arg Ala Val Ala Leu Ala
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 25
 30

 Gly Ser Thr Asn Trp Gly Tyr Asp Ser Asp Gly Gln His Ser Asp
 35
 40
 45

 Ser Asp Ser Asp Ser Asp Pro Glu Tyr Ser Thr Leu Pro Pro Ser Ile Pro

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60
                                     55
                 50
Ser Ala Val Pro Val Thr Gly Glu Ser Phe Cys Asp Cys Ala Gly
                                      70
                 65
Gln Ser Glu Ala Ser Phe Cys Ser Ser Leu His Ser Ala His Arg
                                      85
Gly Arg Asp Cys Arg Cys Gly Glu Glu Asp Glu Tyr Phe Asp Trp
                                                         105
                                    100
Val Trp Asp Asp Leu Asn Lys Ser Ser Ala Thr Leu Leu Ser Cys
                                    115
                110
Asp Asn Arg Lys Val Ser Phe His Met Glu Tyr Ser Cys Gly Thr
                125
Ala Ala Ile Arg Gly Thr Lys Glu Leu Gly Glu Gly Gln His Phe
                                     145
                140
Trp Glu Ile Lys Met Thr Ser Pro Val Tyr Gly Thr Asp Met Met
                                    160
                155
Val Gly Ile Gly Thr Ser Asp Val Asp Leu Asp Lys Tyr Arg His
                                     175
                170
Thr Phe Cys Ser Leu Leu Gly Arg Asp Glu Asp Ser Trp Gly Leu
                                     190
                185
Ser Tyr Thr Gly Leu Leu His His Lys Gly Asp Lys Thr Ser Phe
                                     205
                 200
Ser Ser Arg Phe Gly Gln Gly Ser Ile Ile Gly Val His Leu Asp
                                     220
Thr Trp His Gly Thr Leu Thr Phe Phe Lys Asn Arg Lys Cys Ile
                                     235
                 230
Gly Val Ala Ala Thr Lys Leu Gln Asn Lys Arg Phe Tyr Pro Met
                                     250
Val Cys Ser Thr Ala Ala Arg Ser Ser Met Lys Val Thr Arg Ser
                                                          270
                                     265
 Cys Ala Ser Ala Thr Ser Leu Gln Tyr Leu Cys Cys His Arg Leu
                                      280
                 275
 Arg Gln Leu Arg Pro Asp Ser Gly Asp Thr Leu Glu Gly Leu Pro
                                      295
                 290
 Leu Pro Pro Gly Leu Lys Gln Val Leu His Asn Lys Leu Gly Trp
                                      310
                 305
 Val Leu Ser Met Ser Cys Ser Arg Arg Lys Ala Pro Val Ser Asp
                                      325
                 320
 Pro Gln Ala Ala Thr Ser Ala His Pro Ser Ser Arg Glu Pro Arg
                                      340
                 335
 Pro Cys Gln Arg Lys Arg Cys Arg Arg Thr
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<213> Homo sapiens
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Lys	Lys	Cys	Gly		Glu	Asn	Trp	Thr		Ala	Phe	Ala	Pro	Asp 45
Gly	Ser	Tyr	Phe		Trp	Ser	Gln	Gly	His 55	Arg	Thr	Val	Lys	Leu 60
			Ser	65					70					75
			Thr	80					85					90
			Gly	95					100					105
_			Ile	110					115					120
			Ser	125					130					135
			Asp	140					145					150
			Ile	155					160					165
			His	170					175					180
			Leu	185					190					195
			Asp	200					205					210
_			Gln	215					220					225
			Leu	230					235					240
			Asp Val	245					250					255
			· Ala	260					265					270
				275					280					285 Pro
				290					295					300 Arg
				305					310					315 Ala
				320	)				325					330 Pro
				335	•				340	)				345 Ser
				350	)				355	;				360 Val
				365	5				370	)				375 Leu
				380	)				385	5				390 Gln
				399	5				400	)				405 Arg
		ı Pro	O 116	410		- пув	, ne	, nec	415	5			1 -	420
Ile	2													

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<211> 278
<212> PRT
<213> Homo sapiens
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Phe Trp Val Glu Arg Thr Pro Val His Glu Ala Ala Gln Arg Gly
Glu Ser Leu Gln Leu Gln Leu Ile Glu Ser Gly Ala Cys Val
                 35
Asn Gln Val Thr Val Asp Ser Ile Thr Pro Leu His Ala Ala Ser
Leu Gln Gly Gln Ala Arg Cys Val Gln Leu Leu Leu Ala Ala Gly
                                     70
Ala Gln Val Asp Ala Arg Asn Ile Asp Gly Ser Thr Pro Leu Cys
                                     85
                 80
Asp Ala Cys Ala Ser Gly Ser Ile Glu Cys Val Lys Leu Leu
                                    100
Ser Tyr Gly Ala Lys Val Asn Pro Pro Leu Tyr Thr Ala Ser Pro
                                    115
                110
Leu His Glu Ala Cys Met Ser Gly Ser Ser Glu Cys Val Arg Leu
                                                         135
                                    130
                125
Leu Ile Asp Val Gly Ala Asn Leu Glu Ala His Asp Cys His Phe
                                    145
Gly Thr Pro Leu His Val Ala Cys Ala Arg Glu His Leu Asp Cys
                                    160
                155
Val Lys Val Leu Leu Asn Ala Gly Ala Asn Val Asn Ala Ala Lys
Leu His Glu Thr Ala Leu His His Ala Ala Lys Val Lys Asn Val
Asp Leu Ile Glu Met Leu Ile Glu Phe Gly Gly Asn Ile Tyr Ala
                200
Arg Asp Asn Arg Gly Lys Lys Pro Ser Asp Tyr Thr Trp Ser Ser
                                     220
                215
Ser Ala Pro Ala Lys Cys Phe Glu Tyr Tyr Glu Lys Thr Pro Leu
                                     235
                 230
 Thr Leu Ser Gln Leu Cys Arg Val Asn Leu Arg Lys Ala Thr Gly
                                    250
                 245
Val Arg Gly Leu Glu Lys Ile Ala Lys Leu Asn Ile Pro Pro Arg
                                                         270
                                     265
                 260
 Leu Ile Asp Tyr Leu Ser Tyr Asn
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<211> 281

<212> PRT

<213> Homo sapiens

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Lys Phe Leu Leu Val Gly Asp Ser Asp Val Gly Lys Gly Glu Ile
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Leu Glu Ser Leu Gln Asp Gly Ala Ala Glu Ser Pro Tyr Ala Tyr
                                     40
Ser Asn Gly Ile Asp Tyr Lys Thr Thr Thr Ile Leu Leu Asp Gly
                                     55
Arg Arg Val Lys Leu Glu Leu Trp Asp Thr Ser Gly Gln Gly Arg
Phe Cys Thr Ile Phe Arg Ser Tyr Ser Arg Gly Ala Gln Gly Ile
                                     85
Leu Leu Val Tyr Asp Ile Thr Asn Arg Trp Ser Phe Asp Gly Ile
                 95
Asp Arg Trp Ile Lys Glu Ile Asp Glu His Ala Pro Gly Val Pro
                                    115
                110
Arg Ile Leu Val Gly Asn Arg Leu His Leu Ala Phe Lys Arg Gln
                                    130
                125
Val Pro Thr Glu Gln Ala Arg Ala Tyr Ala Glu Lys Asn Cys Met
                140
Thr Phe Phe Glu Val Ser Pro Leu Cys Asn Phe Asn Val Ile Glu
                                    160
                155
Ser Phe Thr Glu Leu Ser Arg Ile Val Leu Met Arg His Gly Met
                                     175
                170
Glu Lys Ile Trp Arg Pro Asn Arg Val Phe Ser Leu Gln Asp Leu
                                     190
                185
Cys Cys Arg Ala Ile Val Ser Cys Thr Pro Val His Leu Ile Asp
                                     205
                200
Lys Leu Pro Leu Pro Val Thr Ile Lys Ser His Leu Lys Ser Phe
                                     220
                215
Ser Met Ala Asn Gly Met Asn Ala Val Met Met His Gly Arg Ser
Tyr Ser Leu Ala Ser Gly Ala Gly Gly Gly Ser Lys Gly Asn
Ser Leu Lys Arg Ser Lys Ser Ile Arg Pro Pro Gln Ser Pro Pro
                260
Gln Asn Cys Ser Arg Ser Asn Cys Lys Ile Ser
                275
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				440					445					450
His	Glv	Cvs	T.eu	Ara	Thr	Met	Gln	Leu	Leu	Leu	Asp	His	Gly	Ala
				455					460					400
Δsn	Tle	Asp	Ala	Tyr	Ile	Ala	Thr	His	Pro	Thr	Ala	Phe	Pro	Ala
				470					475					400
Thr	Ile	Met	Phe	Ala	Met	Lys	Cys	Leu	Ser	Leu	Leu	Lys	Phe	Leu
				485					490					433
Met	Asp	Leu	Gly	Cys	Asp	Gly	Glu	Pro	Cys	Phe	Ser	Cys	Leu	Tyr
				500					505					210
Gly	Asn	Gly	Pro	His	Pro	Pro	Ala	Pro	Gln	Pro	Ser	Ser	Arg	525
				515					520					525
Asn	Asp	Ala	Pro	Ala	Ala	Asp	Lys	Glu	Pro	Ser	vaı	vai	GTII	540
				530	_				535	7	Trn	λla	Glv	_
Cys	Glu	Phe	Val		Ala	Pro	GIu	vaı	Ser 550	Arg	тър	Ala	Q <sub>1</sub> y	555
			_	545	_	•	M	1101		λen	Val	Gln	Leu	
Ile	Ile	Asp	Val	Leu	Leu	Asp	Tyr	vai	Gly 565	ASII	Val	01		570
	_	_	•	560	1116	Tla	Aen	Ser	Phe	Glu	Asp	Trp	Ala	Val
Ser	Arg	Leu	Lys	575	nis	116	rsp	501	580		_	•		585
~ 7 -	<b>*</b>	<b>~1</b>	Tuc	ر ر د ا ۸	Glu	Pro	Pro	Ara	Pro	Leu	Ala	His	Leu	Cys
iie	гуѕ	GIU	Буз	590					595					600
7 ~~	Len	Δra	Val	Ara	Lvs	Ala	Ile	Gly	Lys	Tyr	Arg	Ile	Lys	Leu 615
		1		605					610					013
T.eu	Asp	Thr	Leu	Pro	Leu	Pro	Gly	Arg	, Leu	lle	Arg	Tyr	Leu	Lys
204				620					625	i				630
Tyr	Glu	Asn	Thr	Gln	L									
•				635										

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                 20
Lys Lys Gly Arg Ser Val Asp Val Ala Asp Asn Arg Gly Trp Met
                                      40
Pro Ile His Glu Ala Ala Tyr His Asn Ser Val Glu Cys Leu Gln
                                      55
Met Leu Ile Asn Ala Asp Ser Ser Glu Asn Tyr Ile Lys Met Lys
                                      70
Thr Phe Glu Gly Phe Cys Ala Leu His Leu Ala Ala Ser Gln Gly
                  80
His Trp Lys Ile Val Gln Ile Leu Leu Glu Ala Gly Ala Asp Pro
                                     100
                 95
Asn Ala Thr Thr Leu Glu Glu Thr Thr Pro Leu Phe Leu Ala Val
                                     115
```

Glu	Asn	Gly	Gln	Ile 125	Asp	Val	Leu	Arg	Leu 130	Leu	Leu	Gln	His	Gly 135
Ala	Asn	Val	Asn		Ser	His	Ser	Met		Gly	Trp	Asn	Ser	
His	Gln	Ala	Ser	Phe	Gln	Glu	Asn	Ala		Ile	Ile	Lys	Leu	
Leu	Arg	Lys	Gly		Asn	Lys	Glu	Cys		Asp	Asp	Phe	Gly	
Thr	Pro	Leu	Phe		Ala	Ala	Gln	Tyr	Gly	Lys	Leu	Glu	Ser	
Ser	Ile	Leu	Ile		Ser	Gly	Ala	Asn		Asn	Cys	Gln	Ala	Leu
Asp	Lys	Ala	Thr		Leu	Phe	Ile	Ala		Gln	Glu	Gly	His	
Lys	Cys	Val	Glu	215 Leu	Leu	Leu	Ser	Ser		Ala	Asp	Pro	Asp	
Tyr	Cys	Asn	Glu	230 Asp	Ser	Trp	Gln	Leu		Ile	His	Ala	Ala	
Gln	Met	Gly	His	245 Thr	Lys	Ile	Leu	Asp		Leu	Ile	Pro	Leu	
Asn	Arg	Ala	Cys	260 Asp	Thr	Gly	Leu	Asn		Val	Ser	Pro	Val	
Ser	Ala	Val	Phe	275 Gly	Gly	His	Glu	Asp		Leu	Glu	Ile	Leu	
Arg	Asn	Gly	Tyr	290 Ser	Pro	Asp	Ala	Gln	295 Ala	Cys	Leu	Val	Phe	
Phe	Ser	Ser	Pro	305 Val	Cys	Met	Ala	Phe	310 Gln	Lys	Asp	Cys	Glu	
Phe	Gly	Ile	Val	320 Asn	Ile	Leu	Leu	Lys	325 Tyr	Gly	Ala	Gln	Ile	
Glu	Leu	His	Leu	335 Ala	Tyr	Cys	Leu	Lys	340 Tyr	Glu	Lys	Phe	Ser	
Phe	Arg	Tyr	Phe	350 Leu	Arg	Lys	Gly	Cys	355 Ser	Leu	Gly	Pro	Trp	360 Asn
His	Ile	Tyr	Glu	365 Phe	Val	Asn	His	Ala	370 Ile	Lys	Ala	Gln	Ala	375 Lys
Tyr	Lys	Glu	Trp	380 Leu	Pro	His	Leu	Leu	385 Val	Ala	Gly	Phe	Asp	390 Pro
Leu	Ile	Leu	Leu	395 Cys	Asn	Ser	Trp	Ile	400 Asp	Ser	Val	Ser	Ile	405 Asp
				410					415					420 Ala
				425					430					435 Trp
				440					445					450 Leu
				455					460					465 Arg
_				470					475					480 His
				485					490					495 Pro
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010	. <u> </u>			515		<b>F</b>	. – 1							

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gcaaatactc teteteegag egettaatee gaacaattge tgecateegt teetteecae 180
atqataatqt agaggacctc atcagagggg gagcagatgt gaactgcact catggcacac 240
tgaagccctt gcactgtgcc tgtatggtgt cagatgctga ctgtgtggag ttacttctgg 300
aaaaaggage egaggtgaat geeetggatg ggtataaeeg aacageeete eactatgeag 360
cagagaaaga tgaggcttgt gtggaggtcc tattggagta tggtgcaaac cccaatgctt 420
tggatggcaa cagagatacc ccacttcact gggcagcctt taagaacaat gctgagtgtg 480
tgcgggctct cctagagagc ggggcctctg tcaatgccct ggattacaac aatgatacac 540
cgctcagctg ggctgccatg aagggaaatc ttgagagtgt cagcatcctt ctggattatg 600
qcqcaqaqqt caqaqtcatc aacctaatag gccagacacc catctcccgc ctggtggctc 660
tgctagtcag gggacttgga acagagaaag aggactcttg ctttgagctc ctccacagag 720
ctgttggaca ctttgaattg aggaaaaatg gcaccatgcc acgagaggtg gccagagacc 780
egeagetatg tgaaaaactg actgttetgt geteagetee aggaacteta aaaacacteg 840
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agtttgattg gaagtccagc tgtgaaacct ggagcgtcgc cttctcccca gatggctcct 180
ggtttgcttg gtctcaagga cactgcatcg tcaaactgat cccctggccg ttggaggagc 240
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ggggcagccc aaaagagaag acgctggact gtggtcagat tgtctggggg ctggccttca 360
geoegtggee tteeceacee ageaggaage tetgggeaeg ecaceacece caagtgeeeg 420
atgtetettg cetggttett getaegggae teaaegatgg geagateaag atetgggagg 480
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